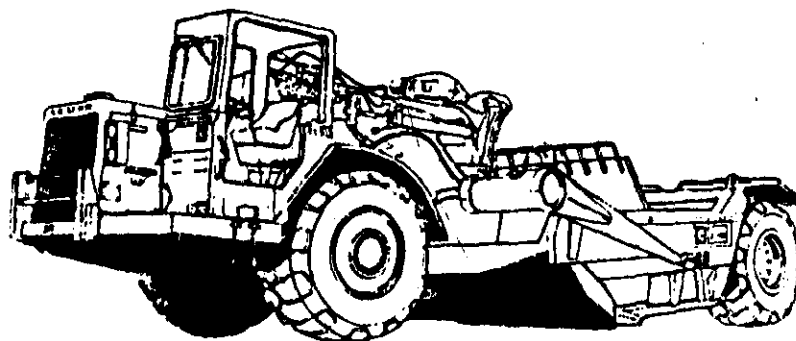


**SOW 01-837-2-08900A-2/1 FOR THE  
SCRAPER, EARTH MOVING, MOTORIZED  
DIESEL ENGINE DRIVEN  
NSN 3805-01-153-1854**



**NSN 3805-01-153-1854**

**DATE: 01 October 2000**

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**STATEMENT OF WORK FOR THE  
Inspect Repair Only as Necessary (IROAN)  
of the  
SCRAPER, EARTH MOVING, MOTORIZED  
DIESEL ENGINE DRIVEN  
NSN 3805-01-153-1854**

1.0 **SCOPE.** This document contains and sets forth tasks and identifies the work efforts that shall be performed by the contractor in the IROAN effort of the Scraper. This document contains requirements to restore the Scraper to condition code "A." Condition code A is defined as serviceable/issuable without qualification. Equipment defined as such should be new, used, repaired or reconditioned material which is serviceable/issuable to all customers without limitation or restriction. This includes material with more than 6 months shelf life remaining. National Stock Number (NSN) shall be known as the Scraper (NSN 3805-01-153-1854).

1.1 **BACKGROUND.** IROAN is defined as "the maintenance technique which determines the minimum repairs necessary to restore equipment components or assemblies, to prescribed standards by utilizing all available diagnostic equipment and test procedures in order to minimize disassembly and parts replacement."

2.0 **APPLICABLE DOCUMENTS.** The following documents form a part of this SOW to the extent specified. Unless otherwise specified, the issues of these documents are those listed in the Department of Defense Index of Specifications and Standards (DoDISS) and supplement thereto which is in effect on the date of solicitation. In the event of conflict between the documents referenced herein and the contents of this SOW, the contents of this SOW shall be the superseding requirements.

2.1 **MILITARY SPECIFICATIONS.**

MIL-C-81309	Preventative Compounds, Water Displacing, Ultra-Thin Film
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2.2 **MILITARY STANDARDS**

MIL-STD-129	DoD Standard Practice for Military Marking
MIL-STD-642	DOD Identification Marking of combat and Tactical Transport Vehicles
MIL-STD-130	DOD Identification Marking of U.S. Military Property

**MILITARY STANDARDS FOR GUIDANCE ONLY**

MIL-STD-973	Configuration Management
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**2.3 OTHER GOVERNMENT DOCUMENTS AND PUBLICATIONS.** The issues of these documents cited below shall be used.

TM-5-3805-248-14&P-3	Technical Manual Maintenance and Repair
TM-5-3805-248-14&P-4	Technical Manual, Repair Parts
ATPD-2241	Vehicles, Wheeled Preparation for Shipment and Storage
DoD 4000.25-1-M	MILSTRIP Manual
NAVICPINST 4491.2A	NAVICP Instruction Requisitioning of Contractor Furnished Material from the Federal Supply System

**2.4 INDUSTRY STANDARDS.**

ANSI/ISO/ASQC Q9002-1994, Quality Systems-Model for Quality Assurance in Production, Installation and Servicing.

Copies of Military Standards and Specifications are available from the DOD Single Stock Point, Defense Automation Production Service Philadelphia, Building 4D, 700 Robbins Avenue, Philadelphia, PA 19111-5094, Telephone (215) 697-2179 or DSN 442-2179, or <http://www.dodssp.daps.mil>. Copies of other government documents and publications required by contractors in connection with specific SOW requirements shall be obtained through the Contracting Officer: Commander, Attn: Contracting Officer (Code 891) Marine Corps Logistics Bases, 814 Radford Blvd., Albany, Georgia 31704-1128, commercial telephone number (912) 439-6761 or DSN 567- 6761. Copies of engineering drawings, if applicable, shall be obtained from Life Cycle Management Center, Attn: Code 825-3, 814 Radford Blvd. Suite 20320, Albany, Georgia 31704-0320, commercial telephone number (912) 439-6410 or DSN 567-6410.

**3.0 REQUIREMENTS**

**3.1 GENERAL TASKS.** In fulfilling the specified requirements, the contractor shall provide and maintain a Quality System that adheres to the requirements of ANSI/ISO/ASQC Q9002-1994, Quality Systems Model for Quality Assurance in Production, Installation, and Servicing, for supplies and services:

3Provide materials, labor, facilities, missing parts, and repair parts necessary to inspect, diagnose, restore, and test the Scraper. Upon completion of IROAN, repaired equipment shall be Condition Code "A".

- b. Provide all tools and test equipment required to test, inspect, and calibrate the Scraper.
- c. In-process and final on-site testing must be witnessed by a MCLB, Albany, representative.

d. The contractor shall be responsible for all structural, electrical and mechanical requirements associated with the restoration of the Scraper.

3.1.1 **IROAN OBJECTIVE AND FUNCTIONS.** After IROAN, the Scraper shall have the following minimum characteristics:

- a. Reliable as per system specifications.
- b. Maintainable as per system specifications.
- c. Serviceable (Condition Code "A").
- d. All vehicle systems and components shall operate as intended.

3.2 **DETAIL TASKS.** The following tasks describe the different phases for IROAN of the Scraper.

Phase I	Pre-Induction
Phase II	IROAN
Phase III	Inspection, testing and acceptance
Phase IV	Packaging, Handling, Storage and Transportation (PHS&T).

### 3.2.1 **PHASE I-PRE-INDUCTION.**

a. A pre-induction inspection analysis shall be performed for the Scraper using the Contractor's diagnosis, inspection and testing techniques to determine extent of work and parts required. These findings shall be annotated on the Pre- Induction Check Sheet located in Appendix A, maintained and be made available upon request to the MCLB Albany, representatives.

b. Test equipment shall be used to determine that assemblies and subassemblies meet prescribed reliability, performance and work requirements. In cases when conformance to the SOW cannot be certified through existing inspection and testing procedures and by use of diagnostic equipment, the assembly shall be removed, disassembled, inspected, tested or repaired to the degree necessary to assure full conformance with this SOW.

c. Oil seal and gasket leakage. Evidence of lubricating or hydraulic oils passing through or around a seal is not a defect; however, consideration must be given to the fluid capacity in the item being checked/inspected. Inspection shall normally be performed during and immediately following an operational test, but not sufficient duration to allow the fluids to return to ambient temperature. The following shall be used as a guide in determining degree of oil loss:

3Class I - Seepage of fluid indicated by wetness or discoloration not great enough to form drops.

4Class II - Leakage of fluid great enough to form drops, but not enough to cause drops to fall from the item being checked/inspected.

(3) Class III - Leakage of fluid great enough to form drops that fall from the item being checked/inspected.

**NOTE:** A CLASS I OR II LEAK, EXCEPT FUEL SYSTEM AND BRAKE SYSTEM, IS AN ACCEPTABLE CONDITION AT ANY TIME AND DO NOT REQUIRE CORRECTIVE ACTION.

**3.2.2 PHASE II - IROAN.** IROAN shall be performed at the contractor's facility. Information recorded on the IROAN Pre-Induction Check Sheets during pre-inspection phase shall be used as a guide by the contractor to achieve the mechanical baseline of production. After pre-induction tests and inspections have been completed, repair of the Scraper shall be accomplished in accordance with this SOW. Deficiencies noted on the Pre-Induction Check Sheet during Phase I shall be repaired/replaced. Components or assemblies shall not be disassembled for replacement of mandatory parts unless that part has failed, or the component assembly wherein the part is located is disassembled for repair. Mandatory replacement parts is contained in TM 5-3805-248-14&P-4. The final Road Test Check Sheet shall be completed and can be found in Appendix B of this SOW.

The following efforts shall be performed as part of the IROAN:

a. **DETAILED MECHANICAL WORK.** Scraper received for IROAN shall be worked in accordance with the following paragraphs. All discrepancies noted on the IROAN Pre-Induction Check Sheet shall be repaired/replaced.

b. **HARDWARE**

(1) Replace broken, unserviceable and/or missing hardware including nuts, bolts, screws, washers, turnlock fasteners, safety, and one-time use items, etc, in accordance with this SOW. Unserviceable would include any of the above that failed to function properly.

(2) Ensure proper hardware locking devices are present on all moving mechanical assemblies.

(3) Hardware normally supplied with commercial parts shall be used unless specifically prohibited.

3Hardware used in this IROAN shall be in accordance with existing technical publications.

c. **ENGINE ASSEMBLY**

(1) **TEST PROCEDURES.** After all pre-induction tests and inspection have been completed, the power pack shall be removed from the equipment, steam cleaned, and inspected for loose or missing items. Follow all warnings and procedures to assure you are working with safe and efficient methods and conditions.

**Central Structure**

(a) Camshaft Group

(b) Connecting Rod and Piston Group.

(c) Crankshaft Group

(d) Cylinder Block Cover Group

(e) Cylinder Block Group

**Upper Structure**

(a) Cylinder Head Group

(b) Lifting Eye Group

(c) Valve mechanism Cover Group

(d) Valve Mechanism Group

**Front Structure**

(a) Front Accessory Drive Group

(b) Front Timing Gear Group

(c) Front Housing Cover Group

(d) Front Housing Fastener Group

(e) Front Housing Group

(f) Rubber Damper Group

(g) Support Group

(h) Trunnion Group

**Rear Structure**

(a) Flywheel Group

(b) Flywheel Housing Cover Group

(c) Flywheel Housing Group

**Lower Structure**



- (a) Oil pan Group

**Engine Lubrication System**

- (a) Breather Group
- (b) Fumes Disposal Group
- (c) Oil Filler Group
- (d) Oil Level Gauge Group
- (e) Oil Pump Group

**Cooling System**

- (a) Oil Cooler Group
- (b) Water Lines Group
- (c) Water Pump Group

**Intake and Exhaust System**

- (a) After cooler Group
- (b) After cooler Water Lines Group
- (c) Air Compressor Group
- (d) Air Compressor Lines Group
- 3 Air Lines Group
- (f) Exhaust Manifold Group
- (g) Turbocharger Oil Lines Group

**Fuel System and Governor**

- (a) Fuel Injection Lines Group
- (b) Fuel Filter Group
- (c) Fuel Filter Lines Group
- (d) Fuel Ratio Control Group

- (e) Fuel Transfer Pump Group
- (f) Governor and Fuel Pump Drive Group
- (g) Governor and Fuel Pump Group
- (h) Tachometer Drive Group

(2) PASS/FAIL. After the engine run test has been completed. The engine assembly shall meet or exceed the minimum specifications to be considered as having passed.

The above procedures for repair/replacement can be found in TM 5-3805-248-14&P-3.

d. **COOLING SYSTEM**

(1) Test Procedures. Test the following in accordance with TM 5-3805-248-14&P-3 to conform with inspection and testing procedures to assure full conformance with this SOW.

- (a) Radiator Group
- (b) Protection Cover Group
- (c) Water Pump Group
- (d) Water Lines Group
- (e) Suction Fan Group
- (f) Oil Cooler Group
- (g) Brake Oil Cooler Group
- (h) Torque Converter Oil Cooler Group

(2) PASS/FAIL. Replace coolant, coolant belts, radiator, and heater hoses. Replace anti-freeze protection. Replace any hose on above equipment that fail test/inspection in accordance with TM 3805-248-14&P-3.

The above procedures for repair/replacement can be found in TM 5-3805-248-14&P-3

e. **INTAKE AND EXHAUST SYSTEM**

(1) TEST/INSPECTION PROCEDURES. Test the following in accordance with TM 5-3805-248-14&P-3 to conform with inspection and testing procedures to assure full conformance with this SOW.

- (a) Air Lines Group
- (b) Air Compressor Lines Group
- (c) Turbocharger Group
- (d) Turbocharger Cartridge Group
- (e) Turbocharger Oil Lines Group
- (f) After cooler Group
- (g) After cooler Water Lines Group
- (h) After cooler Coolant Filter Group
- (i) Exhaust Manifold Group
- (j) Exhaust Extension Group
- (k) Muffler Group

(2) PASS/FAIL. Repair/Replace any or all of the above components that fail pre-induction inspections/test.

The above procedures for repair/replacement can be found in TM 5-3805-248-14&P-3

f. **HYDRAULIC SYSTEM**

(1) INSPECTION/TEST PROCEDURE. Inspect/test in accordance with TM 3805-248-14&P-3 to conform with inspection procedures to assure full conformance with this SOW.

- (a) Control Group, Trailing Unit.
- (b) Control Valve Group.
- (c) Hydraulic Tank and Filter Group.
- (d) Breaker Relief Valve Group.
- (e) Cartridge Group.
- (f) Hydraulic And Fluid System.
- (g) Hydraulic Cylinders.
- (h) Drift of Bowl Cylinders.

- (i) Drift of Apron Cylinder.
  - (j) Replace if any evidence of hydraulic oil leakage at the surface of the hose or its junction with the metal end couplings.
  - (k) Replace if any blistering or abnormal deformation to the outer covering of the hose.
  - (l) Replace if hydraulic oil leak at any threaded or clamped joint that cannot be eliminated by normal tightening.
  - (m) Replace if evidence of excessive abrasion or scrubbing on the outer surface of hoses.
- (2) PASS/FAIL. Repair/Replace any of the above items that fail Pre-Induction Inspection and test. Repair/Replace in accordance with TM 3805-248-14&P-3. Tube lines that are pinched or dented replace.

g. **POWER TRAIN-POWER TRANSMISSION UNIT**

(1) INSPECTION/TEST PROCEDURE. Inspect/test in accordance with TM 3805-248-14&P-3 to conform with inspection procedures to assure full conformance with this SOW.

- (a) Transmission Case and cover Group.
- (b) Planetary Transmission Group.
- (c) Transmission Hydraulic Control Group.
- (d) Automatic Shifting Valve Group.
- (e) Automatic Pressure Control and Selector Valve Group.
- (f) Pressure Control Valve Group.
- (g) Selector Valve Group.
- (h) Shift Pressure Valve Group.
- (i) Torque Converter Group.
- (j) Manifold and Screen Group.
- (k) Governor and Drive Group.
- (l) Scavenge Pump Group.
- (m) Transmission Filter Group.

- (n) Pore Train Oil Lines Group.
- (o) Retarder Control Group.
- (p) Retarder Valve Assembly.
- (q) Gear Pump Group.
- (r) Differential Group.
- (s) Drive Shaft Group.
- (t) Final Drive and Wheel Group.
- (u) Differential Lock Control Group.

(2) PASS/FAIL. Upon completion of inspection/test, the transmission shall meet or exceed the minimum specifications. Repaired or replaced transmission that fails inspection. The transmission oil, filter, and oil pan gasket shall be replaced.

#### **h. STEERING AND BRAKING SYSTEM**

(1) INSPECTION/TEST PROCEDURES. Inspect power steering pump, Steering Servo-Receiver Mounting and Cylinder, steer motor and pump, reservoir, and cap for leaks and proper function.

- (a) Inspect all power steering cylinder hoses for leaks.
- (b) Inspect steering gear box assembly.
- (c) Inspect all power steering tubing for leaks, cracks, kinks, or flat section.
- (d) Inspect Steering hydraulic tank.
- (e) Inspect steering wheel for cracks.
- (f) Inspect Brake Control Group.
- (g) Inspect Brake Actuator Group.
- (h) Inspect Control valve Group
- (i) Inspect Slack adjuster Group.
- (j) Inspect Service Brake Group.

- (k). Inspect Air Dryer Group.
- (l) Inspect Steering Lines Group.
- (m) Inspect Pressure Reducing Valve Assembly.
- (n) Inspect Steering Valve Group.
- (o) Inspect Steering Gear Group.
- (p) Inspect Gear Pump Group.
- (q) Inspect Double Valve Pump Group.
- (r) Inspect the Vane Pump Group.
- (s) Inspect Cartridge Group.
- (t) Inspect all Steering Cylinders
- (u) Inspect Steering Servo-Receiver Mounting and Cylinder Group.

**NOTE:** All steering cylinders shall be removed and new seal kits and springs installed 100 percent. No welding or straightening (hot or cold) shall be permitted on steering gear controls. Steering wheels with minor cracks 1/8 inch wide or less which do not extend to the steering wheel core may be repaired by filling with a non-shrinking epoxy and sanded smooth.

(2) PASS/FAIL. Repair/Replace any or all of the above components that do not meet operational standards of TM 5-3805-248-14&P-3.

i. **CHASSIS**

(1) INSPECTION/TEST PROCEDURE. Inspect/test in accordance with TM 3805-248-14&P-3 to conform with inspection procedures to assure full conformance with this SOW.

- (a) Frame and Case Group.
- (b) Front Bumper Group.
- (c) Operator Compartment Group.
- (d) Hood Group.
- (e) Fender Group.
- (f) Hitch Group.

(g) Radiator Guard Group.

(h) Crankcase Guard Group.

(i) Turn Stop Group.

(2) PASS/FAIL. Repair/Replace any or all of the above components that do not meet operational standards of TM 5-3805-248-14&P-3.

j. **BRAKE SYSTEM**

All of the brakes in the brake system are shoe type brakes. There is a brake at each wheel of the Scraper. These brakes are activated by air pressure in brake actuators. The brake actuators give the machine three types of brakes: service, emergency and parking.

(1) INSPECTION/TEST PROCEDURES. Inspect/test in accordance with TM 3805-248-14&P-3 to conform with inspection procedures to assure full conformance with this SOW.

(a) Inspect Brake Linkage, Hand Brake and pedal.

(b) Inspect parking brake for proper functioning.

(c) Inspect service brake.

(d) Inspect all brake lines for cracks and leaks.

(e) Inspect brake pads.

(f) Inspect hydraulic brake system.

(g) Inspect mechanical brake system.

(h) Inspect air reservoir tank for leaks and rust.

(i) Perform brake pump flow test.

(2) PASS/FAIL. Repair/Replace any or all of the above components that do not meet operational standards of TM 5-3805-248-14&P-3.

k. **TIRES, WHEELS**

(1) INSPECTION PROCEDURES. Inspect tire inflation. Inspect cupping, chunking, cuts, and cracks.

(a) Inspect wheels for cracks, breaks, and damaged mounting holes.

(b) Wheels shall be free of cracks breaks, and damaged mounting holes. All wheels that do not meet these requirements shall be replaced.

(2) PASS/FAIL. Each tire must have 4/32 inch or more of tread remaining and be in good serviceable condition. All tires shall be matched to provide proper performance and approximately equal life. Tires shall not show evidence of cupping or chunking. Tires shall not have cuts or cracks greater than one inch in length, 1/8 inch wide. Tires shall not have cuts or breaks, regardless of length or width, which extend to the fabric, Rubber separation or bulges on tire sidewalls are not acceptable.

All tires that do not meet these requirements shall be replaced.

The above procedures for repair/replacement can be found in TM 5-3805-248-14&P-3.

## 1. ELECTRICAL SYSTEM

The Electrical System is a 24-volt charging system.

(1) INSPECTION/TEST. Inspect/test in accordance with TM 3805-248-14&P-3 to conform with inspection procedures to assure full conformance with this SOW.

Inspect all wiring harnesses, battery cables for corrosion, bent or missing pins, ripped or torn insulation and tie wraps. The following electrical systems should be tested/inspected.

- (a) Alternator
- (b) Solenoid Switch Assembly
- (c) Starting Motor Group
- (d) Instrument Panel
- (e) Fuse Holder/fuses
- (f) Lights
- (g) Batteries, Storage/Batteries
- (h) Chassis Wiring Harness

(2) PASS/FAIL. Repair/Replace all missing and bent pins. Repair of insulation less than four inches in length may be accomplished using electrical tape. Tears or rips in excess of four inches shall require installation of new conduit. Corrosion shall be removed from components in accordance with MIL-C-81309. Upon removal of corrosion, if component does not function properly, replace component. Replace all damaged battery cables, and any missing or damaged tie wraps.



The above procedures for test/inspect repair or replacement can be found in TM 5-3805-248-14&P-3.

m. **CAB, GAUGES AND ACCESSORIES**

(1) TEST/INSPECTION PROCEDURES. Check for broken bolts, cracks, broken welds, and rust. Check for loose or missing hardware. Remove all insulation from cab/floor and inspect for corrosion. Inspect the following.

- (a) Seat Suspension Group.
- (b) Roll-Over Protective System.
- (c) Doors, Cab.
- (d) Fenders, Windows.
- (e) Cab Windshield Group.
- (f) Windshield Wiper Group.
- (g) Body, Chassis, and Hull Accessory Items.
- (h) Data Plate and Instruction Holder.
- (i) Rear View Mirror Group.
- (j) Air Horn Group.
- (k) Defrosting Fan Group.
- (l) Gauge Group.
- (m) Heater Group.
- (n) Harness Assembly.
- (o) Return Air Console Group.
- (p) Control Console Group.
- (q) Draft Frame Group.

(2) PASS/FAIL. Repair/Replace the above items and dents that exceed 7/16 of an inch.

The above procedures for repair/replacement can be found in TM 5-3805-248-14&P-3.

n. **DATA PLATES AND DECALS.**

DATA PLATE. Each repaired Scraper shall have an IROAN data plate affixed next to the existing data plate. The data plate shall meet the requirements of MIL-STD -130.

(1) Test procedures. Inspect vehicle for missing, damaged, and illegible data plates and decals.

(2) PASS/FAIL. Replace all data plates and decals that are missing and illegible. IROAN data plates shall be prepared by the contractor and contain the following information:

VEHICLE SERIAL NO \_\_\_\_\_  
REPAIRED IN ACCORDANCE WITH SOW-01-837-2-08900A-2/1.  
CONTRACTOR FACILITY \_\_\_\_\_ DATE \_\_\_\_\_  
ODOMETER OR HOUR READING AT TIME OF IROAN \_\_\_\_\_

**NOTE:** Odometers and hour meters on vehicles IROAN under provisions of this SOW shall not be turned back to zero.

**RECORD JACKET:** All major equipment or components serial numbers that are replaced during the IROAN are to be identified by the Contractor for entry in the record jacket of the Scraper (This include engines, transmissions, etc.).

Information will list the Scraper serial number, Name of equipment/component(s) replaced, serial number of deficiency equipment/component(s), serial number of replacement equipment/component(s), and if the equipment/component(s) is new or rebuilt.

3.2.3. **PHASE III - INSPECTION, TESTING AND ACCEPTANCE.**

(a) Inspection, testing and acceptance of the Scraper shall be conducted in accordance with TM 5-3805-248-14&P-3 and the provisions of this SOW.

(b) The contractor shall be responsible for conducting required tests and shall ensure all necessary personnel are available to complete the final acceptance. Acceptance test shall be held at the contractor facility. MCLB, Albany, Code 837-2 representatives shall be given a minimum of two weeks notice prior to beginning acceptance testing. The test area shall be cleared of all Scraper parts and components, etc., not required for the test.

(c) The contractor shall be responsible for correcting any deficiencies identified during inspection/testing. MCLB Albany, Code 837-2 representatives may require the contractor to report tests or portions thereof, if the original tests fail to demonstrate compliance with this SOW.

(d) Acceptance testing on the Scraper repaired under the provisions of this SOW shall be accomplished in accordance with TM-5-3805-248-14&P-3 and provisions of this SOW.

(e) Vehicle Markings. Registration numbers and other markings shall be applied in accordance with MIL-STD-642. Lifting and tie down attachments shall be identified with one-inch letters indicating "SLING POINT" or "TIE DOWN."

### **3.2.4. PHASE IV - PACKAGING HANDLING STORAGE AND TRANSPORTATION (PHS&T).**

(a) The Contactor shall be responsible for preservation and packaging of items being repaired under the terms of this statement of work. Items being prepared for long term storage shall be Level A requirements of ATDP-2241. Items scheduled for domestic shipment, immediate use, or shipment or overseas destinations with the exception of Maritime Prepositioned Forces (MPF), shall be Level B, Drive-on/ Drive-off. Items being prepared for overseas shipment shall have a label affixed which reads, "NOT FOR WEATHER DECK STOWAGE." Items scheduled for shipment to MPS shall be Level B, MPS Modified Drive Away.

(b) The Terms Drive-on/Drive-off and MPF Modified Drive Away are defined as follows:

(1) Drive-on/Drive-off: Batteries will be hot and disconnected from vehicle electrical system. Terminals and leads will be taped. Fuel tank will be filled  $\frac{1}{4}$  full. The air intake system, exhaust and brake systems, drive train and gauges are to be depreserved.

(2) MPS Modified Drive Away: Batteries shall be hot and connected to vehicle electrical system. Fuel tank shall filled  $\frac{3}{4}$  full of JP5. The air intake system, exhaust and brake systems, drive train and gauges are to be depreserved. Fire extinguisher bracket and seats (all) shall be installed.

(c) Marking shall be in accordance with MIL-STD-129.

(d) The Marine Corps will provide the contractor with the shipping address(es) for delivery of the repaired equipment. The contractor shall be responsible for arranging for shipment to the pre designated site(s). The Marine Corps will be responsible for transportation costs associated with shipping equipment to and from the contractor.

## **3.3 CONFIGURATION MANAGEMENT**

### **3.3.1 CONFIGURATION STATUS ACCOUNTING (CSA)**

(a) The Contractor shall determine the application status of approved configuration changes by visual inspections to the extent possible. The government will identify the configuration changes to be inspected by furnishing a Configuration Checklist (Appendix C) to the Contractor. The Contractor shall use one checklist for each Scraper to record the inspection findings along with other required data.

(b) The Contractor shall record serial numbers of the assemblies listed on the Configuration Checklist. The Contractor shall record the information on the same form that was used to record the application status of configuration changes.

### **3.3.2 CONFIGURATION CONTROL.**

The Contractor shall apply configuration control procedures to established configuration item. The contractor shall not implement configuration changes to an item's documented performance or design characteristics without receiving prior written authorization. The baseline configuration has been defined by written procedures or material contained in manuals, standards, instructions or

engineering drawings. If it is necessary to depart from the authorized configuration, the Contractor shall prepare and submit a Request for Deviation or Request for Waiver using MIL-STD-973, paragraphs 5.4.3 and 5.4.4., and Appendix E as guidance.

### **3.4 GOVERNMENT FURNISHED EQUIPMENT (GFE)/ GOVERNMENT FURNISHED MATERIEL (GFM)**

GFE is government owned equipment authorized by contract for use by a commercial/government contractor. It is neither consumed during production nor incorporated into any product. GFM is materiel furnished to a contractor that will be consumed during the course of production or incorporated into product being manufactured/remanufactured under a contract/ statement of work. In the event the Marine Corps does have GFE/GFM requirements, the Management Control Activity (MCA/Code 827-2), Marine Corps Logistics Bases, Albany, Georgia, will coordinate required GFE and will maintain a central control on Marine Corps assets in the Contractor's possession. The MCA will forward a GFE Accountability agreement to the Contractor Facility for signature to establish a chain of custody and property responsibilities for Marine Corps assets. The Contractor shall report receipt of all GFM and report consumption of GFM to the MCA.

### **3.5 CONTRACTOR FURNISHED MATERIEL (CFM).**

The Marine Corps has adopted the Navy's procedures regarding Contractor Furnished Materiel (NAVICPINST 4491.2A). In the event that Contractor Furnished Materiel is required for repair parts, the contractor shall requisition through the DOD Supply System. DOD 4000.25-1-M, (MILSTRIP) Chapter 11 authorizes contractors to requisition through the DOD Supply System

### **3.6 QUALITY ASSURANCE PROVISIONS**

The performances of the contractor and the quality of work delivered, material provided and documents written shall be subject to in process review and inspection by the MCLB Albany representatives during contract performance. Inspection may be accomplished at any work location. Authorized MCLB Albany Code 837-2 representatives shall be permitted to observe the work/task accomplishment or to conduct inspections at a reasonable hour. Acceptance tests shall be held in plant. Inspection by the MCLB Albany, Code 837-2 representatives of all acceptance tests plans, materials and associated lists furnished hereunder does not relieve the contractor from any responsibility regarding defects or other failures to meet contract requirements which may be disclosed prior to final acceptance. The commercial/government contractor will not be subject to surveillance if they hold a 2<sup>nd</sup> or 3<sup>rd</sup> party certification that they are either qualified or certified as ISO-9002 compliant. The discovery of non-conforming product or service shall lead to the commercial/government oversight listed above until they are requalified or re-certified by a 2<sup>nd</sup> or 3<sup>rd</sup> party auditing service.

The Contractor shall provide and maintain a quality System that as a minimum, adheres to the requirements of ANSI/ISO/ASQC Q9002-1994, Quality System Model for Quality Assurance in Production, Installation, and Servicing.

The contractor shall have in place documented procedures and standards for quality assurance and the repair facilities work shall be subject to in process reviews and inspections for compliance with

these procedures and standards by MCLB Albany Code 837-2 representatives. Noncompliance with procedures resulting in degraded quality of work may result in a stop work order requiring action for the contractor to correct the work performed and to enforce compliance with quality assurance procedures or face contract termination. Notwithstanding such MCLB Albany Code 837-2 representatives inspection. It shall be the repair facilities responsibility to ensure that the entire system meets the performance requirements. Inspection and test plan shall be utilized as guidelines whenever applicable and in accordance with the SOW.

Quality assurance operations performed by the contractor shall be subject to MCLB Albany Code 837-2 representatives verification at any time. MCLB Albany Code 837-2 representatives verification can include, but shall not be limited in any matter to the following:

(a) Inspection of materials, products, assemblies, and documentation to assess compliance with quality standards.

(b) Surveillance of operations to determine that quality assurance, practices, methods, and procedures are being properly applied.

(c) Inspection of deliverable products to assure compliance with all requirements of the Scraper, this SOW, and applicable documents used herein.

### 3.7 ACCEPTANCE

The performance of the contractor and the quality of work delivered, including all equipment furnished and documentation written or compiled, shall be subject to in process review and inspection during performance. Inspection may be accomplished in plant or at any work site or location, and Marine/Corps representatives shall be permitted to observe the work or to conduct inspection at all reasonable hours. Final inspection and acceptance testing shall be conducted at the contractor facility. Final acceptance shall be conducted on 100 percent of items to verify that the units meet all requirements.

Acceptance testing. The Scraper IROANED under the provisions of this SOW shall be accomplished in accordance with TM 5-3805-248-14&P-3 and provisions of this SOW.

### 3.8 REJECTION

Failure to comply with any of the specified requirements listed herein shall be reason for rejection by MCLB, Albany representative. The contractor shall at no additional cost to, MCLB, Albany Georgia, provide the following:

(a) Develop an approach for modification or correction of all deficiencies.

(b) On approval of a documented approach, the contractor shall correct the deficiencies and repeat verification until acceptable compliance with acceptance test procedures is demonstrated.

### 4.0 REPORTS

4.1 Pre-Induction Check Sheet. The contractor shall complete the pre-induction inspection check sheet Appendix A for each equipment repaired. These documents shall be available during final acceptance testing. One copy of each document shall be provided to MCLB Albany, Georgia Equipment Specialist Code 837 -2 after final acceptance of the Scraper.

4.2. Final Road Test Checklist. The contractor shall provide one copy per vehicle, of the final road test results Appendix B performed on Scraper. Also provide a copy of the Pre-Induction Check Sheet. These sheets must be available for review during the final acceptance testing and shall be sent to MCLB Albany Equipment Specialist Code 837-2 upon acceptance of vehicle.

4.3. Configuration Checklist. The Contractor shall complete the Configuration Checklist (Appendix C) for each Scraper IROANed. This document shall be available during final acceptance testing. One copy of each document shall be provided to The Weapon System Manager and/or their representative(s) after final acceptance of the Scraper, or upon request.

**PRE-INDUCTION CHECKSHEETS  
FOR  
SCRAPER**

**DATE:****REFERENCES:  
ID 08900A****U.S. M.C. NO.** \_\_\_\_\_ **MILES** \_\_\_\_\_**JOB ORDER NO.** \_\_\_\_\_ **HOURS** \_\_\_\_\_**PRODUCTION NO.** \_\_\_\_\_ **SERIAL NO.** \_\_\_\_\_**ENGINE NO.** \_\_\_\_\_**TRANSMISSION NO.** \_\_\_\_\_

<b>INSPECTORS' NAME</b>	<b>BADGE NUMBER</b>	<b>SHIP NUMBER</b>
=====	=====	=====
=====	=====	=====

**NOTE:** The following inspection sheets are divided into columns. The inspector will place a check in the column which best describes the condition of the item being inspected for those items that cannot be inspected for any reason, the inspector will make an appropriate annotation in the remarks column. If the inspector finds a defect that could cause injury to the operator or damage to the end item, testing will cease until the defect is corrected or the decision is made to induct the Scraper into the shop.

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**PRE-INDUCTION CHECKSHEETS**

ITEMS	PASS	FAIL	COMMENTS
<b>1. Monitor Indicator and Gauge Checks</b>			
Key Switch Check _____	_____	_____	
Fuel Gauge Check _____	_____	_____	
Hour Meter Check _____	_____	_____	
Temperature Gauge Check _____	_____	_____	
<b>2. Body &amp; Cab</b>			
Hood _____	_____	_____	
Protection, Rool-Over (ROPS) _____	_____	_____	
Doors _____	_____	_____	
Fenders _____	_____	_____	
Windshield _____	_____	_____	
Upholstery, Seat and Floor Covering	_____	_____	_____
Seat Belts _____	_____	_____	
Mirrors _____	_____	_____	
Wiper Motor _____	_____	_____	



Wiper Blades

\_\_\_\_\_

Fuel Tank

\_\_\_\_\_

Hitch Pins

\_\_\_\_\_

**ITEM****PASS****FAIL****COMMENTS****3. Cooling System**

Air Cleaner

\_\_\_\_\_

Inspect for Loose or Broken welds  
and rusted conditions

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Cooling System Relief Valve

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Radiator Group

\_\_\_\_\_

Fan Bearing

\_\_\_\_\_

Water Pump

\_\_\_\_\_

Suction Fan Group

\_\_\_\_\_

Water Lines

\_\_\_\_\_

Protection Cover Group

\_\_\_\_\_

Oil Cooler Group

\_\_\_\_\_

Fan Belts

\_\_\_\_\_

**4. Intake and Exhaust System**

Air Compressor Group	_____	_____	
_____			
Exhaust Manifold Group	_____	_____	
_____			
Turbocharger Group	_____	_____	
_____			
Turbocharger Cartridge Group	_____	_____	
_____			
Air Lines	_____	_____	
_____			
Clamp Assembly	_____	_____	
_____			
Turbocharger Oil Lines Group	_____	_____	
_____			
Aftercooler Group	_____	_____	
_____			
Muffler Group	_____	_____	
_____			
<b>ITEM</b>	<b>PASS</b>	<b>FAIL</b>	<b>COMMENTS</b>
Engine Compartment Shield Group	_____	_____	
_____			
Dust Ejector Group	_____	_____	
_____			
<b>5. Fuel System and Governor</b>			
Fuel Injection Lines Group	_____	_____	
_____			
Fuel Filter Group	_____	_____	
_____			
Fuel Filter Lines Group	_____	_____	
_____			

Fuel Ratio Control Group	_____	_____
_____		

Fuel Transfer Pump Group	_____	_____
_____		

Governor and Fuel Pump Drive Group	_____	_____
_____		

Tachometer Drove Group	_____	_____
_____		

## 6. Hydraulic System

Control Group, Trailing Unit	_____	_____	_____
------------------------------	-------	-------	-------

Control Valve Group	_____	_____	_____
---------------------	-------	-------	-------

Control Valve Assembly	_____	_____
_____		

Valve Group	_____	_____
_____		

Air Control Valve Group	_____	_____
_____		

Internal Filter Group	_____	_____
_____		

Hydraulic Tank and Filter Group	_____	_____
_____		

Breaker Relief Valve Group	_____	_____
_____		

Cartridge Group	_____	_____
_____		

## 7. Apron Cylinder Group

_____	_____	_____	_____
-------	-------	-------	-------

Apron Lift	_____	_____
_____		

<b>ITEM</b>	<b>PASS</b>	<b>FAIL</b>	<b>COMMENTS</b>
Edge and Bit	_____	_____	
_____			

Bowl	_____	_____
_____		
Bowl Cylinder	_____	_____
_____		
Ejector Lines	_____	_____
_____		
Ejector Cylinder	_____	_____
_____		
Brake Control	_____	_____
_____		
Brake Actuator	_____	_____
_____		
Slack Adjuster	_____	_____
_____		

**8. Power Train-Power Transmission Unit**

Transmission Power Take Off	_____	_____
_____		
Control Linkage Check	_____	_____
_____		
Check Transmission for cracks, leaks and damage housing.	_____	_____
_____		
Planetary Transmission Group	_____	_____
_____		
Transmission Hydraulic Control Group	_____	_____
_____		
Automatic Shifting Valve Group	_____	_____
_____		
Shift Pressure Valve Group	_____	_____
_____		

Torque Converter Group	_____	_____
_____		
Transmission Filter Group	_____	_____
_____		
Differential Group	_____	_____
_____		
Drive Shaft Group	_____	_____
_____		
Final Drive and Wheel Group	_____	_____
_____		

ITEM	PASS	FAIL	COMMENTS
------	------	------	----------

**9. Steering and Breaking System**

Power Steering Cylinder & Hoses	_____	_____
_____		
Steering Gear Box	_____	_____
_____		
Steering Wheel	_____	_____
_____		
Steering Hydraulic Tank	_____	_____
_____		
Air Deyer	_____	_____
_____		
Gear Pump	_____	_____
_____		
Steering Hydraulic Filter	_____	_____
_____		
Steering Pump Belt	_____	_____
_____		

**10. Brake System**

Brake Linkage	_____	_____
_____		

Hand Brake & Pedal _____	_____	_____	
Parking Brake _____	_____	_____	
Brake Lines _____	_____	_____	
Brake Pads _____	_____	_____	
Air Reservoir Tank _____	_____	_____	
<b>11. Electronical System</b>			
Alternator _____	_____	_____	
Solenoid Switch Assembly _____	_____	_____	
Starting Motor Group _____	_____	_____	
Instrument Panel _____	_____	_____	
Fuse Holder/Fuses _____	_____	_____	
<b>ITEM</b>	<b>PASS</b>	<b>FAIL</b>	<b>COMMENTS</b>
Lights _____	_____	_____	
Batteries, Storage/Batteries _____	_____	_____	
Blackout Lighting Group _____	_____	_____	
Harness Assembly _____	_____	_____	

Ether Starting Aid Group

\_\_\_\_\_

\_\_\_\_\_

Electric Starting Motor Group

\_\_\_\_\_

\_\_\_\_\_

**12. Tires, Wheels**

Wheels

\_\_\_\_\_

\_\_\_\_\_

Tires

\_\_\_\_\_

\_\_\_\_\_

## FINAL ROAD TEST CHECKSHEET SCRAPER

All safety checks must be satisfactory completed prior to road test. If necessary, before performing tests and checks, wipe down components where grease, oil or dirt could possibly form.

The following items shall be checked during the vehicle static test with the vehicle operating.

	A C C E P T A B L E	M I S S I N G	S E R V I C E	A D J U S T	R E P A I R	R E P L A C E	M O D I F Y	REMARKS
<b>1. CHECK THE FOLLOWING GAUGES FOR CORRECT READINGS.</b>								
a. Tachometer reading at idle.								
b. Engine oil pressure, minimum of psi at idle.								
c. Air pressure gauge								
d. Fuelage								
e. Engine coolant (after road test)								
<b>2. CAB CONTROLS (can be done on road test)</b>								
a. Windshield wipers								
b. Windshield washer								
c. Heater/Defroster fan								
d. Heater ducks for air transfer								
e. Horn for proper operation								
<b>3. TURN SIGNALS</b>								
<b>4. BRAKE OPERATION</b> (does it pull or stall when applied on quick stop)								
a. Park brake holds								
b. Park brake release, operates properly								
c. Service brakes operate properly								
a. Accelerates smoothly								
b. Doesn't stick or bind								
<b>6. STEERING</b>								
a. Operates smoothly								

Appendix B (1 of 2)

	A C C E P T A B L E	M I S S I N G	S E R V I C E	A D J U S T	R E P A I R	R E P L A C E	M O D I F Y



	E P T A B L E	S I N G	V I C E	U S T	L A C E	A I R	I F Y	REMARKS
b. Doesn't wander or pull <b>7. TRANSMISSION</b> a. Automatic shifting b. Shift lever operations <b>8. BHYDRAULIC SYSTEMS</b> a. Bowl operation b. Apron operation								

**CONFIGURATION INSPECTION CHECK SHEET  
SCRAPER**

**IDENTIFICATION NUMBER****TAM NUMBER**

Vehicle registration Number	
Vehicle Serial Number	
Hours at Inspection	
Miles at Inspection	
IROAN Date	
Hours at IROAN	
Miles at IROAN	
Engineering Change Plans (ECP)	
Maintenance Instruction (MI)	
SL-4	
Technical Manuals (TM)	

**SECONDARY REPAIRABLE DATA**

**ITEM****SERIAL NUMBER**

Engine	
Transmission	
Drive Axles	

# CONTRACT DATA REQUIREMENTS LIST

(1 Data Item)

Form Approved  
OMB No. 1704-0188

The Public reporting burden for this collection of information is authorized to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302 and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503. Please DO NOT RETURN your form to either of these addresses. Send completed form to the Government issuing Contract Officer for the contract/PR No. listed in block E.

A. CONTRACT LINE ITEM NO.		B. EXHIBIT		C. CATEGORY: TDP                      TM                      Other XXX		
D. SYSTEM/ITEM Scraper, Earth Moving, Motorized Diesel Engine Driven		E. CONTRACT/PR No.		F. CONTRACTOR		
1. DATA ITEM No. B001	2. TITLE OF DATA ITEM Request for Waiver (RFW)			3. SUBTITLE Configuration Management		
4. AUTHORITY (Data Acquisition Document No.) DI-CMAN-80641B		5. CONTRACT REFERENCE SOW 3.3.2		6. REQUIRING OFFICE MARCORLOGBASES (825)		
7. DD 250 REQ. LT	9. DIST STATEMENT REQUIRED A	10. FREQUENCY ASREQ	12. DATE OF FIRST SUBMISSION See Blk 16	14. DISTRIBUTION a. ADDRESSEE MCLBA (825-2)		
8. APP CODE		11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION	b. COPIES Draft                      FINAL Reg                      Repro		
16. REMARKS  Block 4 - Contractor format is authorized.  Blocks 10 & 12 - RFWs shall be submitted to obtain authorization to deliver nonconforming material which does not meet the prescribed configuration documentation.  RFWs will be reviewed and disposition determined within 30 calendar days upon receipt by the government.  RFWs shall be transmitted via e-mail to the following address: <a href="mailto:mbmatcomconfigmngmnt@matcom.usmc.mil">mbmatcomconfigmngmnt@matcom.usmc.mil</a>  Distribution Statement A: Approved for public release, distribution is unlimited.				0	1	0
15. TOTAL				0	1	0
G. PREPARED BY: <i>Colt P. H.</i>		H. DATE 3-13-00		I. APPROVED BY: <i>[Signature]</i>		J. DATE 3-13-00

17. PRICE GROUP

18. ESTIMATED  
TOTAL PRICE

# CONTRACT DATA REQUIREMENTS LIST

(1 Data Item)

Form Approved  
OMB No. 1704-0188

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A. CONTRACT LINE ITEM NO.		B. EXHIBIT		C. CATEGORY: TDP _____ TM _____ Other XXX	
D. SYSTEM/ITEM Scraper, Earth Moving, Motorized Diesel Engine Driven			E. CONTRACT/PR No.		F. CONTRACTOR
1. DATA ITEM No. B002	2. TITLE OF DATA ITEM Request for Deviation (RFD)			3. SUBTITLE Configuration Management	
4. AUTHORITY (Data Acquisition Document No.) DI-CMAN-80640B		5. CONTRACT REFERENCE SOW 3.3.2		6. REQUIRING OFFICE MARCORLOGBASES (825)	
7. DD 250 REQ. LT	9. DIST STATEMENT REQUIRED A	10. FREQUENCY AS REQ	12. DATE OF FIRST SUBMISSION See Blk 16	14. DISTRIBUTION b. COPIES	
8. APP CODE		11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION	a. ADDRESSEE	Draft Reg Repro
16. REMARKS  Block 4 - Contractor format is authorized.  Blocks 10 & 12 - RFDs shall be submitted to obtain authorization to deliver nonconforming material which does not meet the prescribed configuration documentation.  RFDs will be reviewed and disposition determined within 30 calendar days upon receipt by the government.  RFDs shall be transmitted via e-mail to the following address: mbmatcomconfigmngmnt@matcom.usmc.mil  Distribution Statement A: Approved for public release, distribution is unlimited.				MCLBA (825-2)	0 1 0
				15. TOTAL	

17. PRICE GROUP  
  
18. ESTIMATED  
TOTAL PRICE

G. PREPARED BY: <i>Carl P. [Signature]</i>	H. DATE 3-13-00	I. APPROVED BY: <i>[Signature]</i>	J. DATE 3-13-00
-----------------------------------------------	--------------------	---------------------------------------	--------------------